

Use Case 18: Real Time Topology Processor**Summary:**

The Topology Processor Calculates the Topology Model for the Real-time Conditions

Actor(s):

Name	Role description
Actor 1	
Actor 2	

Probable Participating Systems:

System	Services or information provided
System 1	SCADA system provides real-time data for the switch positions
System 2	

Pre-conditions:**Assumptions / Design Considerations:**

A scan of the real-time systems conditions has been completed and the CIM measurement value table has been updated. The system status values are correct and consistent. We are considering a three phase balanced network.

Normal Sequence:

Use Case Step	Description
1	The Topology Processor is activated either by a periodic timer, on user demand or when a change in switch state is detected.
2	The network topology model is computed.

Exceptions / Alternate Sequences:

A bad status value is passed to the CIM measurement table and this is not detected so that the quality shows good.

Post-conditions:

A network topology model is calculated for the real-time conditions.

References:

Use Cases referenced by this use case, or other documentation that clarifies the requirements or activities described.

Issues:

ID	Description	Status
1.		

Revision History:

No	Date	Author	Description
0.	10/26/98	R. Podmore	

Use Case Diagram: